

**Technical Story Number:** TS006.01.2

**Technical Story Name:** Retrieve Health Coverage for CMS Redesign

**Priority:** High

**ClearQuest Number:** DAS\_CR387

**Author:** David Ellis / Developer

**Story:** As the Centers for Medicare and Medicaid Services (CMS) Hub I want to send a query to the Virtual Lifetime Electronic Record (VLER) Data Access Services (DAS) for information on the Affordable Care Act (ACA) applicant's Department of Veterans Affairs (VA) systems coverage so that the CMS Hub can determine if the applicant meets the ACA Minimal Essential Coverage (MEC) requirement.

#### Revision History

Date	Version	Description	Author
01/23/2013	v0.01	Initial Draft.	David Ellis
01/23/2013	v0.02	Tech Writer Review	Nancy Burak
01/24/2013	v0.03	Design Review	George Ludgate
01/24/2013	v0.04	Management Review	Cam Moore
01/24/2013	v1.0	Approved	Cam Moore

#### Reference Documentation

1. US006.01 - Retrieve Health Coverage for CMS, v1.0.
2. VHA/ACA Integration Initiative, Interface Control Document, v0.3, Centers for Medicare & Medicaid Services.  
<http://vaww.oed.portal.va.gov/products/vler/FIST/das/Third%20Party/Forms/AllItems.aspx?RootFolder=%2Fproducts%2Fvler%2FFIST%2Fdas%2FThird%20Party%2FACA%20Affordable%20Care%20Act&FolderCTID=0x01200046F7F32B7C577B4E96310A7F44B09EE5&View={71985E67-17FB-4C9E-A46F-DC890EF01516}&InitialTabId=Ribbon%2EDocument&VisibilityContext=WSSTabPersistence>
3. ACA WSDL (Web Services Description Language) specification and schemas from VIERS group. Packaged as Zip file (TS006.01.1 WSDL and schemas from VIERS.ZIP) accompanying this Technical Story document.

## Overview

The Sprint Transformers\_14 design implemented in TS006.01.1 addressed the basic task of passing a specific SOAP request from CMS to VIERS, but it would require significant coding effort for each new request that we will be asked to support.

The TS006.01.2 redesign is intended to treat our service as a proxy, which will allow quick and simple addition of new requests.

**Note:** There is no new functionality compared to *TS006.01.1 Retrieve Health Coverage for CMS*.

This Technical Story implements the Business Requirements listed in the following User Stories:

1. US006.01 - Retrieve Health Coverage for CMS v1.0

User Story Requirement ID	Description	Technical Story Coverage (Yes/No/Partial)
US006.01.01	VLER DAS sends the CMS Hub request for health coverage information to VIERS.	Yes
US006.01.02	VLER DAS sends the VIERS health coverage information response to the CMS Hub.	Yes

## Actors

The following applications collaborate to meet the business requirements:

1. CMS Hub (consumer)
2. VLER Gateway
3. VIERS (Veteran Identity/Eligibility Reporting System) (producer)

## Preconditions

1. All actors must be running.
2. The CMS Hub must have network access to VLER gateway over the Internet
3. The VLER Gateway must have network access to VIERS over the VA Wide Area Network (WAN).

## Detailed Flow within System

### Detailed Flow through CMS Hub.

The CMS Hub makes a request to VA for details of eligibility on behalf of an ACA Applicant. The reply will contain an enrollment status of APPLICANT\_ENROLLED, APPLICANT\_NOT\_ENROLLED or APPLICANT\_NOT\_FOUND. Some applicants will be veterans, but for those who are not, it is likely that VIERS will not be able to identify them, and in this case VA will return a status of APPLICANT\_NOT\_FOUND to CMS.

The CMS request and response conform to the ICD (Reference #2).

CMS performs the following:

1. CMS creates a SOAP (Simple Object Access Protocol) request for information from VA, specifying a given ACA Applicant.
2. CMS sends the request to VLER Gateway in a synchronous web service call. The web service will run over HTTPS in production and possibly in testing.
3. CMS receives back a return value from the web service call as a response to the request.

**Note:** All CMS internal processing is outside the scope of this Technical Story.

### **Detailed Flow through VLER Gateway**

The CMS request and response conform to the ICD (Reference #2).

The web service call from CMS, and its entire SOAP message, is passed to VIERS unchanged except for host addressing. The VIERS interface is to be the same as that of the VLER Gateway for this request. The synchronous response back from VIERS is passed back to CMS unchanged.

The VIERS request and response conform to Reference #3.

VLER Gateway performs the following:

1. Gateway receives a synchronous web service request. The web service will run over HTTPS in production and possibly in testing.
2. Gateway obtains the entire SOAP request.
3. Gateway creates the web service request to VIERS.
4. Gateway performs a synchronous web service call to VIERS using the above request. The web service will run over HTTPS in production and possibly in testing.
5. Gateway receives back a return value from the web service call as a response to the request.
6. Gateway obtains the entire SOAP response.
7. Gateway creates a response to the CMS request.
8. Gateway returns a reply to the incoming CMS request, as a response.

### **Software Design Note:**

To support easier and faster implementation of future ACA requests (and possibly other similar requests), the design of the VLER Gateway has been changed to implement a proxy structure using the Apache Camel CXF component framework. The proxy is configured with an endpoint address specified in a DAS properties file. Within the VLER Gateway, the proxy passes the SOAP request to VIERS, receives the synchronous response and returns it to CMS.

### **Detailed Flow through VIERS.**

The VIERS request and response conform to Reference #3.

VIERS performs the following:

1. VIERS receives a synchronous SOAP web service request from the VLER Gateway. The web service will run over HTTPS in production and possibly in testing.
2. VIERS constructs a SOAP response.
3. VIERS returns the response to the VLER Gateway.

**Note:** All VIERS internal processing is outside the scope of this Technical Story.

### **Post Conditions**

1. All the preconditions
2. CMS has received back a response to their request for data on behalf of a given ACA Applicant.

### **Alternate Flow**

None

### **Alternate Flow Post Conditions**

N/A

### **Detailed Listing of Acceptance Criteria**

Requirement ID	Description
TS006.01.2.01	VLER DAS receives a SOAP request for ACA enrollment status from the CMS Hub.
TS006.01.2.02	VLER DAS forwards the SOAP request to VIERS.
TS006.01.2.03	VLER DAS receives a SOAP response from VIERS.
TS006.01.2.04	VLER DAS returns the SOAP response to the CMS Hub.

### **Dependencies and Assumptions**

Any changes to the WSDL, associated schema or the Interface Control Document (ICD) may be regarded as changes to the requirements for CMS ACA requests. If the requirements change, that may necessitate additional future work to change our code and documentation accordingly.